

## **Study Objectives**

- Identify technical and operational issues associated with mass casualty decontamination after a terrorist incident involving chemical agents
- Recommend the best approaches for responders to use in the event of a large-scale terrorism incident involving chemical agents

### **Decontamination Needs**

- Remove agent from victim's skin and clothing to stop increasing severity of chemical exposure
- Protect first responders and medical personnel from contamination and chemical effects
- Provide victims with aid as fast as possible, at or near the incident site
- Prevent the spread of contamination throughout emergency facilities

### **Decontamination Materials**

#### **Recommended:**

• Water alone: flush or shower with high-volume low-pressure water for physical removal of CWA

### **Not Recommended:**

- Soap solution: marginal improvements over water alone for less soluble agents are offset by delays in decon preparation
- Bleach solution: research indicates bleach exacerbates effects of chemical agents on skin

**Water for People - Bleach for Things** 

### **Decontamination Prioritization**

# Analogous to medical triage: <u>Provide the greatest benefit</u> <u>to the greatest number of people</u>

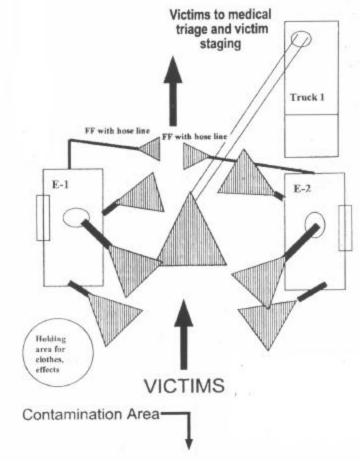
- Casualties exhibiting severe symptoms of chemical agents
- Casualties with apparent liquid contamination on clothing or skin
- Casualties who believe they were contaminated

# **Fire Equipment Procedures**



The Ladder Pipe Decontamination System Howard County, MD Fire Department

### Fire Equipment Procedures



The Ladder Pipe Decontamination System Baltimore County, MD Fire Department

# Fire Equipment Procedures



The Emergency Decontamination Privacy Corridor System Montgomery County, MD Fire & Rescue Service

# **Principles**

- ρ Expect a 5:1 ratio of unaffected:affected casualties
- ρ Decontaminate ASAP
- ρ Disrobing is decontamination; top to bottom, more the better
- ρ Water flushing generally is the best mass decon method
- ρ After known exposure to liquid agent, first responders must self-decontaminate as soon as possible to avoid serious effects

# **Further CW IRP Information**

Further details are available in "Guidelines for Mass Casualty Decontamination During a Terrorist Chemical Agent Incident". A report available over the internet, under CWIRP, at the web site:

http://www2.sbccom.army.mil/hld/index.htm

